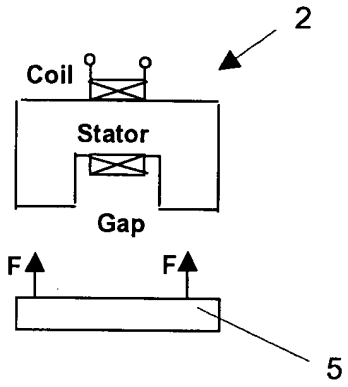
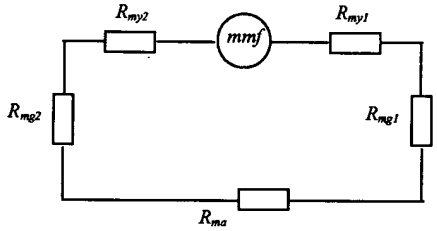




$$mmf = N \cdot I$$

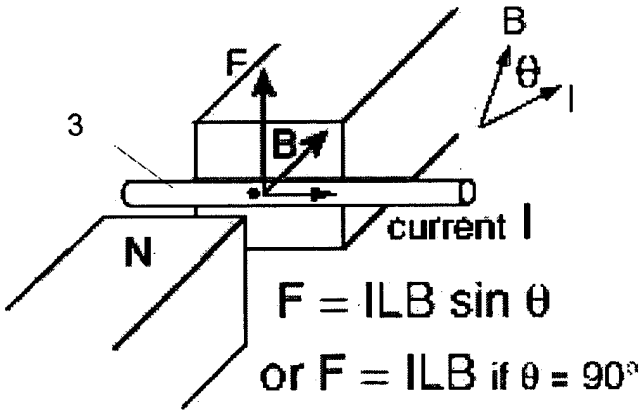
$$R_{mk} = \frac{L_{mk}}{\mu_{mk} \cdot A_{mk}}$$

$$R_{me} = \sum_{k} R_{mk}$$

$$\Phi = \frac{mmf}{R_{me}}$$

$$F = \frac{\Phi^2}{2 \cdot \mu_0 \cdot A}$$

FIG. 1
(PRIOR ART)



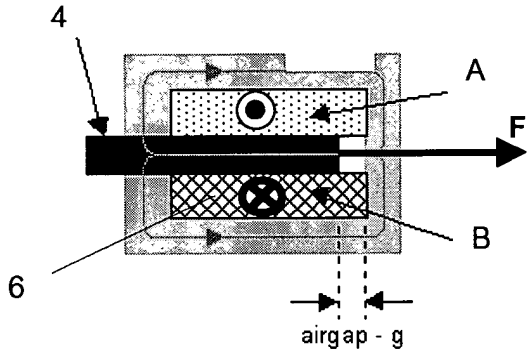
$$F = qvB \sin \theta$$

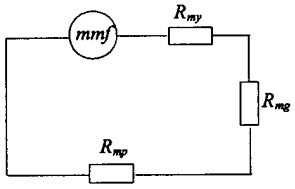
$$F = q\frac{L}{t} B \sin \theta$$

$$F = \frac{q}{t} LB \sin \theta$$

$$F = ILB \sin \theta$$

FIG. 2
(PRIOR ART)





$$mmf = N \cdot I$$

$$R_{mk} = \frac{L_{mk}}{\mu_{mk} \cdot A_{mk}}$$

$$R_{me} = \sum_{k} R_{mk}$$

$$\Phi = \frac{mmf}{R_{me}}$$

$$F = -\frac{1}{2} \cdot \Phi^2 \cdot \frac{dR_{mg}}{dx}$$

FIG. 3
(PRIOR ART)

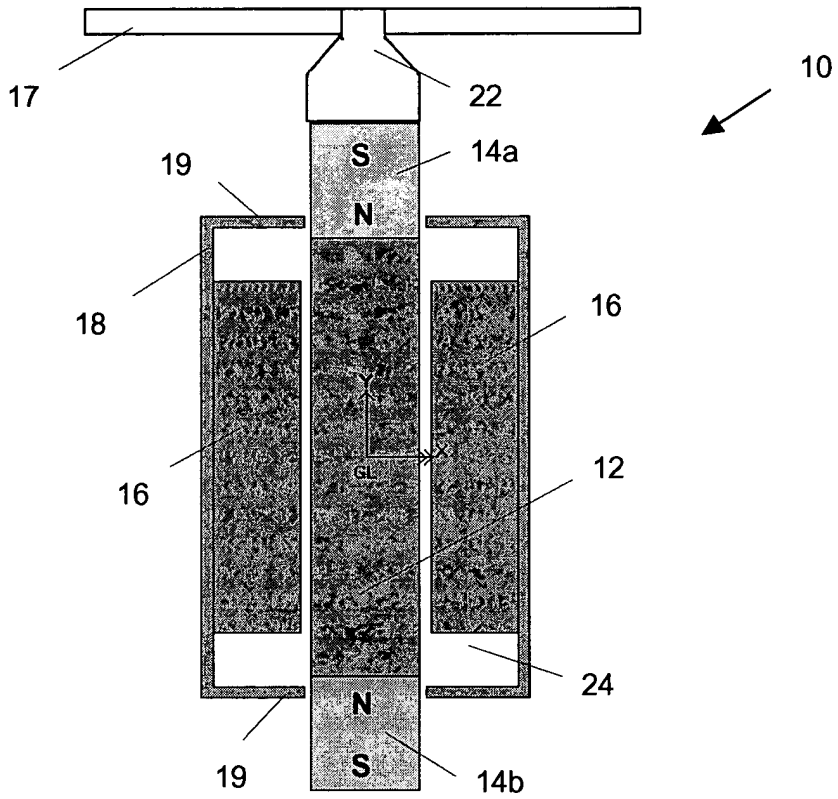


FIG. 4

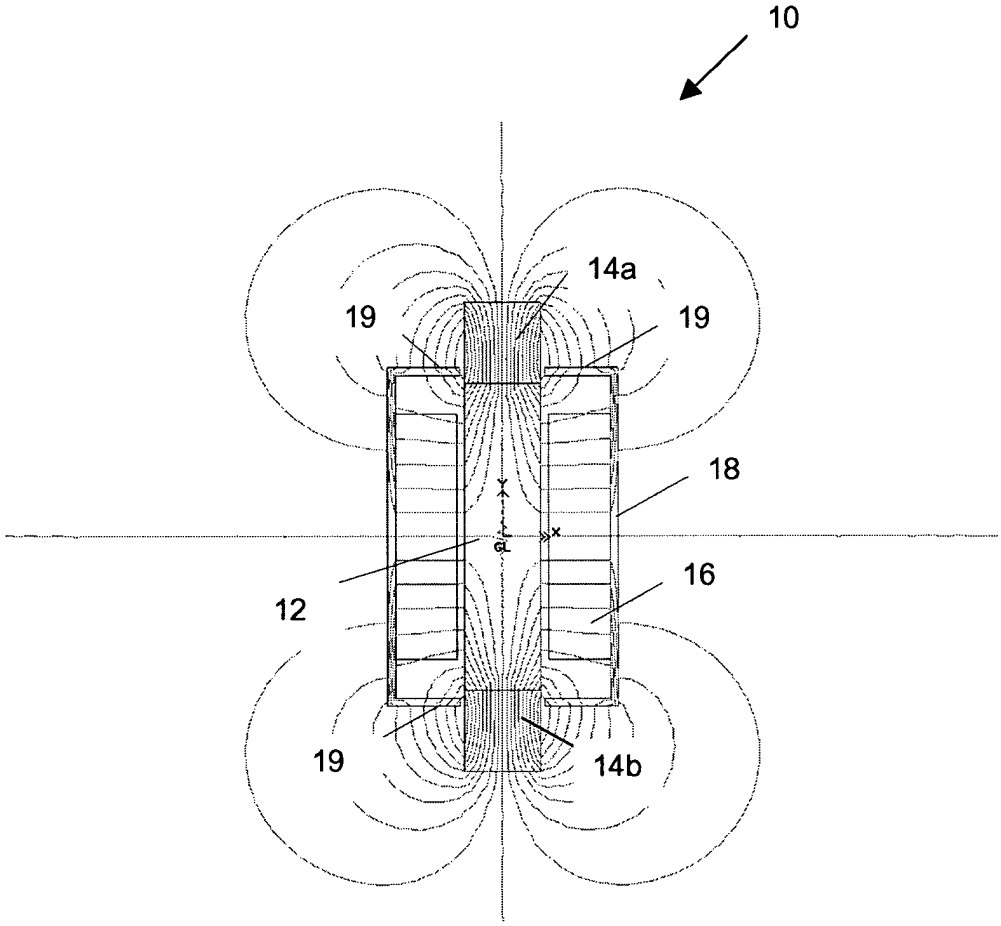


FIG. 5A

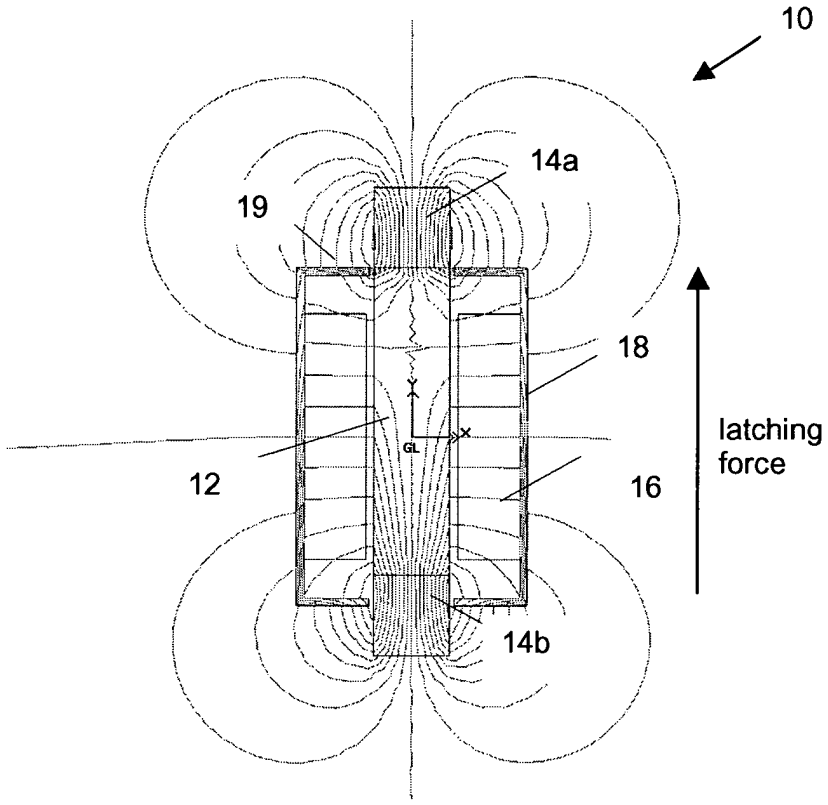
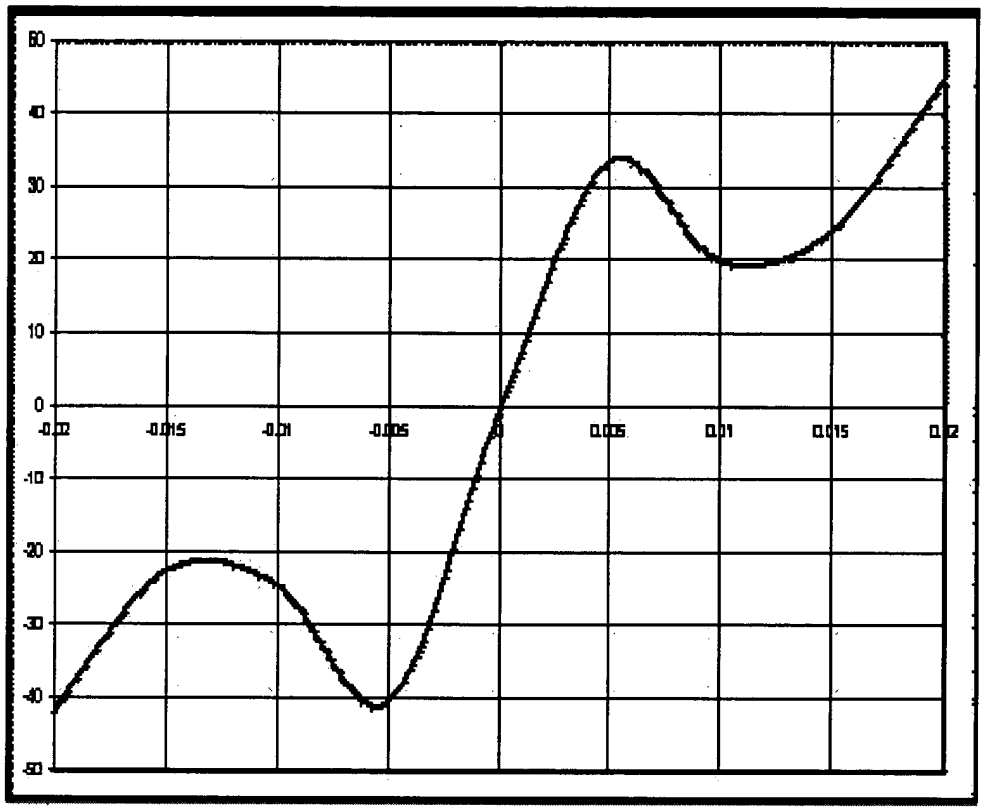


FIG. 5B

Latching force [grams]



Positional displacement [inches]

FIG. 5C

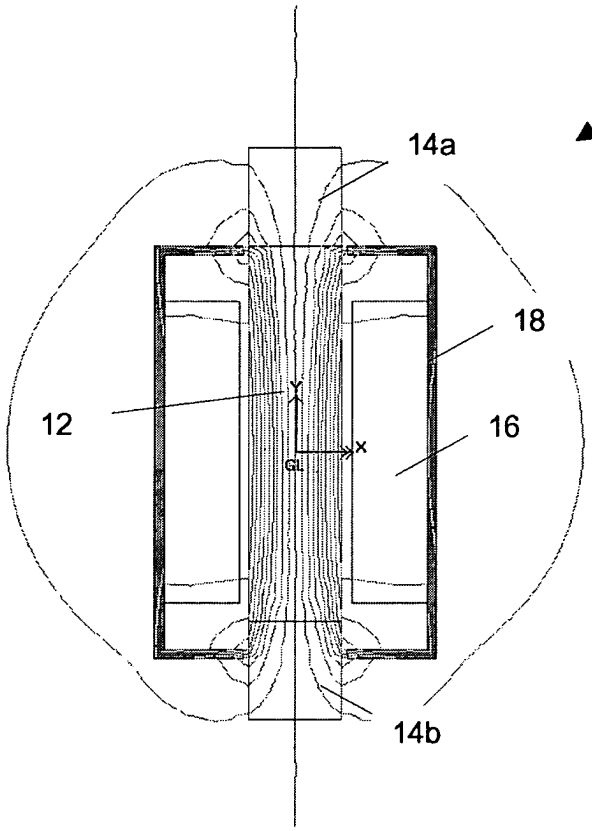


FIG. 6

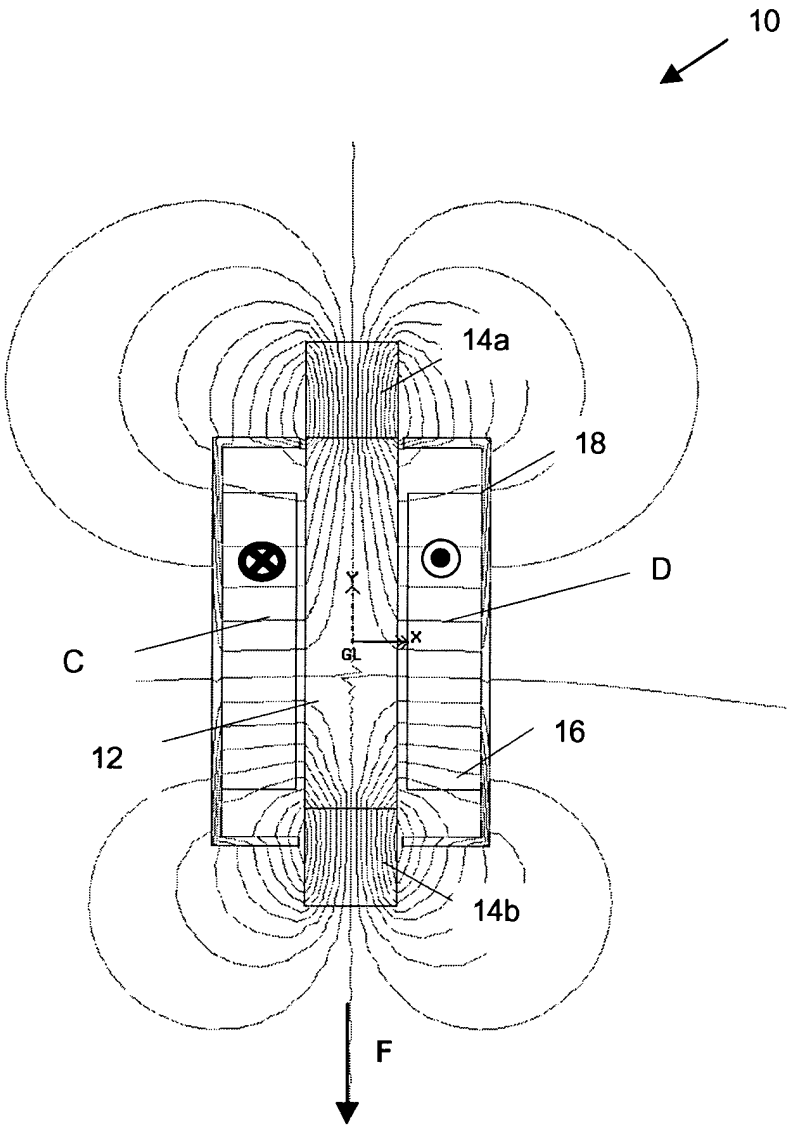


FIG. 7A

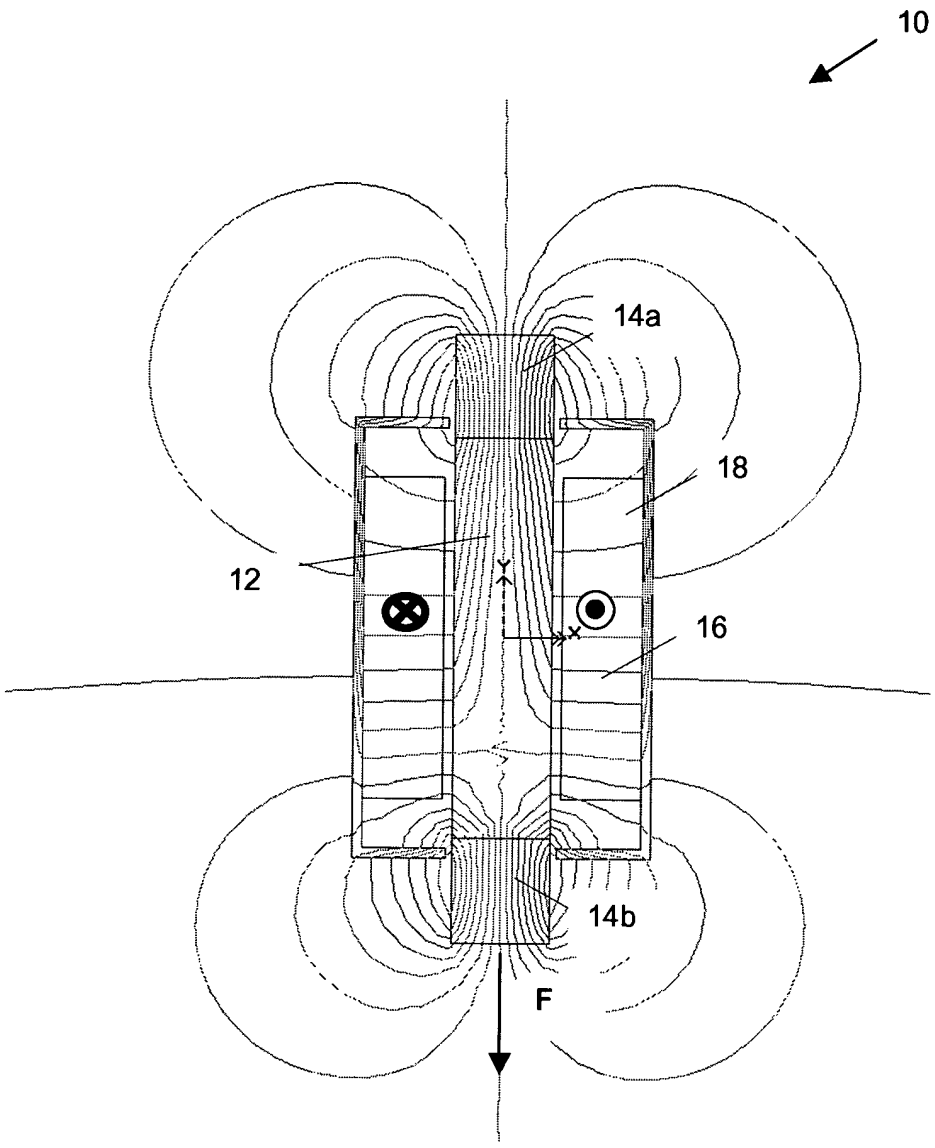


FIG. 7B

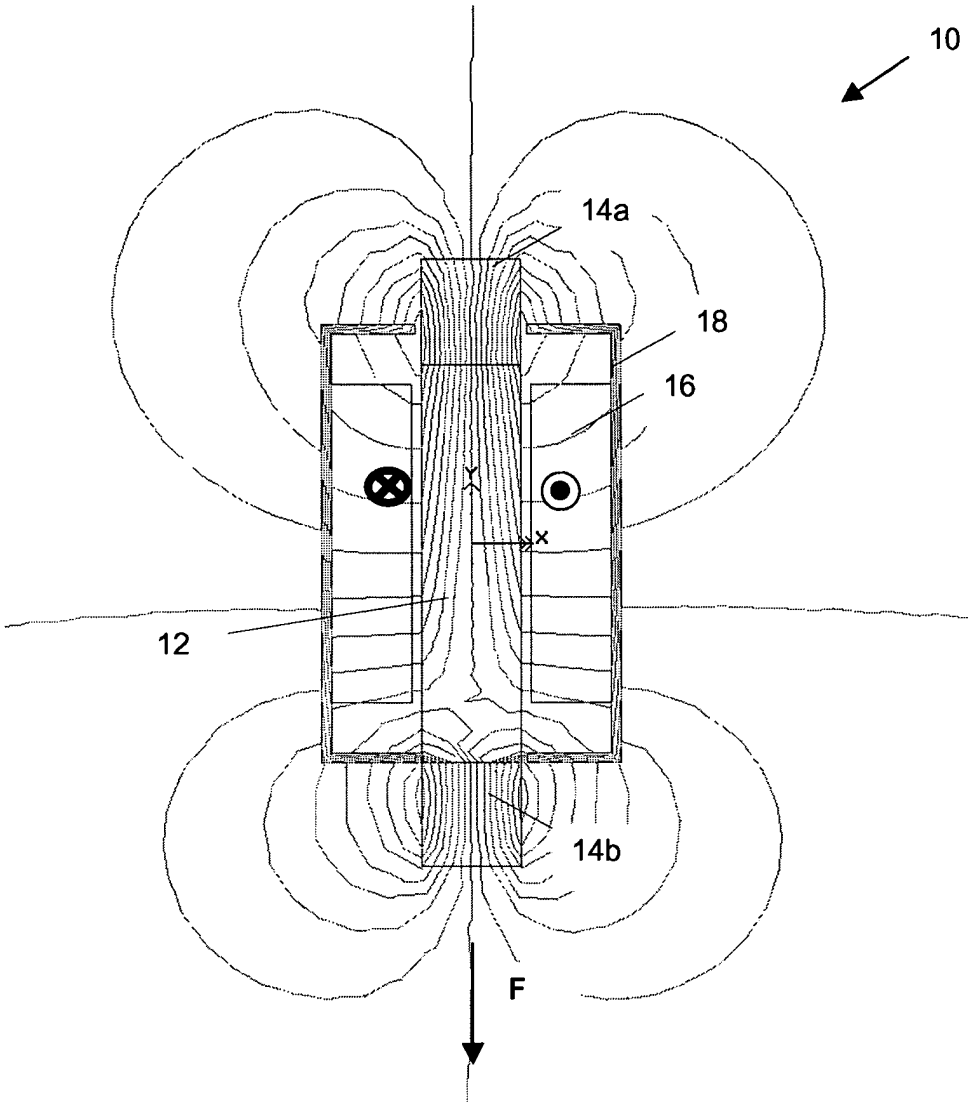


FIG. 7C

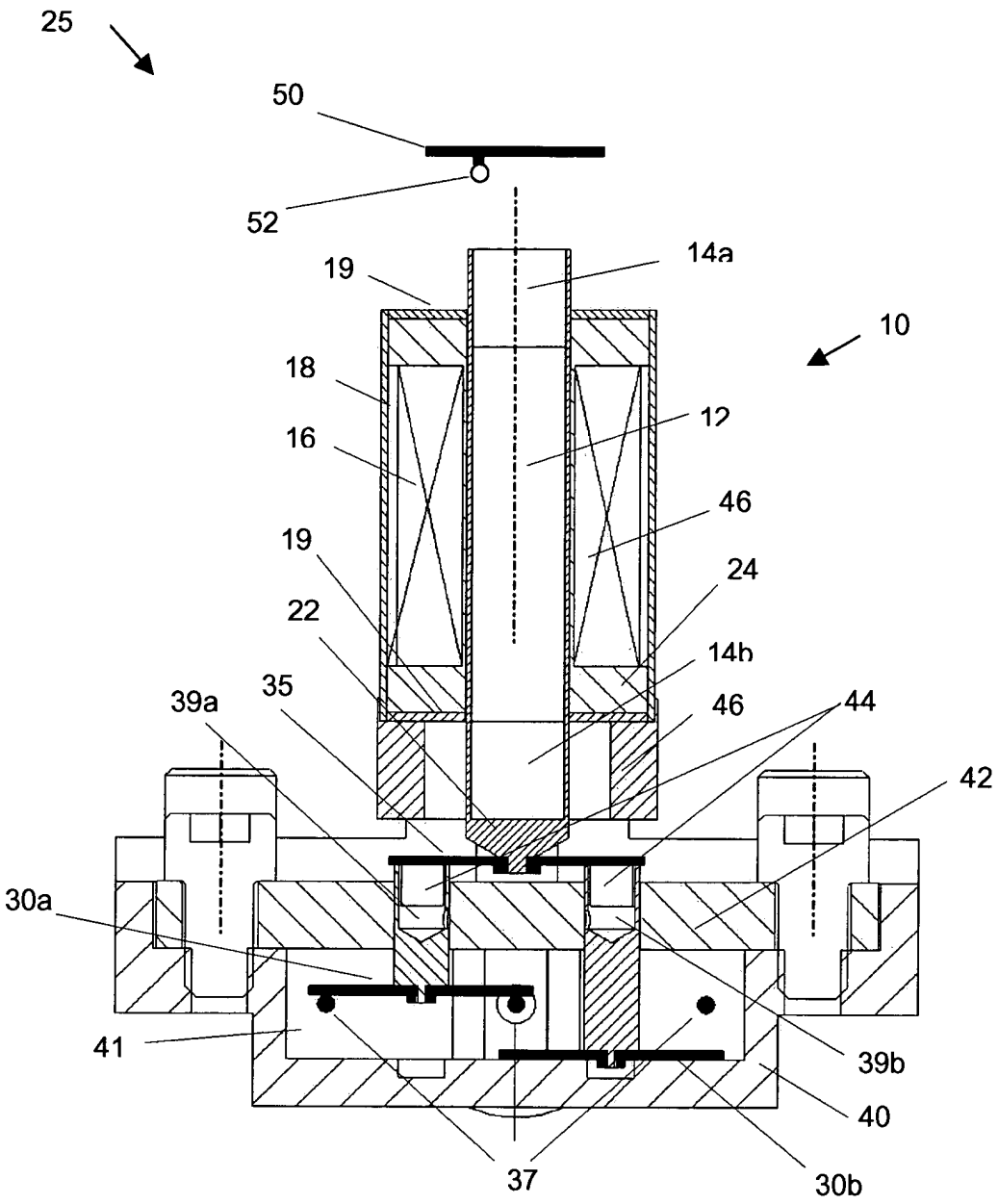

25
50
52
19
14a
10
18
12
16
46
19
24
22
14b
35
39a
46
44
42
30a
41
39b
40
37
30b

FIG. 8A

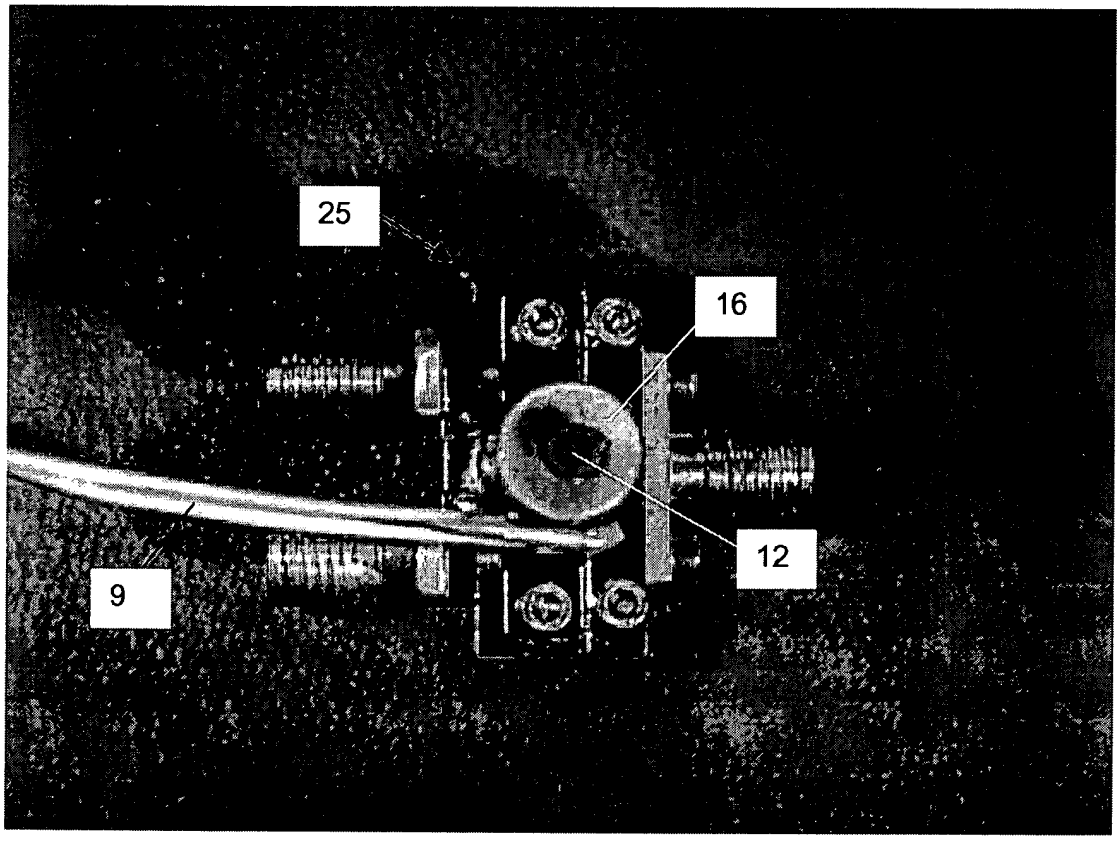


FIG. 8B

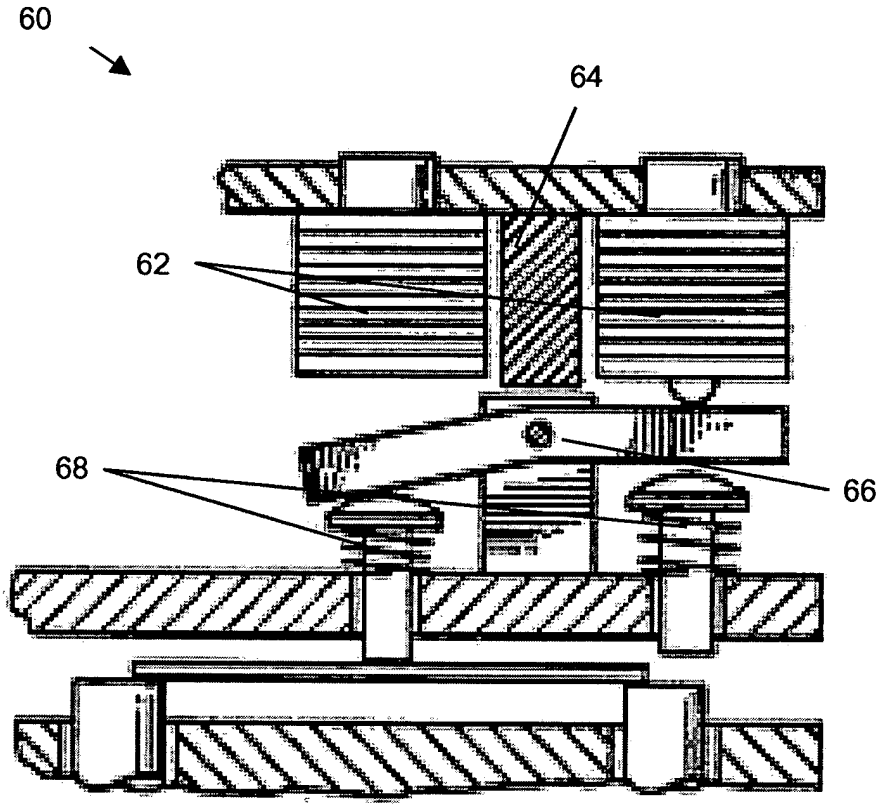


FIG. 9
(PRIOR ART)